



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/026,261	12/21/2001	Kazim Orhan Yildiz	NA11P200/00.170.01	7874

28875 7590 03/25/2005

Zilka-Kotab, PC  
P.O. BOX 721120  
SAN JOSE, CA 95172-1120

EXAMINER

WALSH, JOHN B

ART UNIT

PAPER NUMBER

2151

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/026,261	<b>Applicant(s)</b> KAZIM YILDIZ	
	<b>Examiner</b> John B. Walsh	<b>Art Unit</b> 2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |  |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/21/01</u> . | 6) <input type="checkbox"/> Other: ____  |

*ch*

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claims 1-17 are rejected under 35 U.S.C. 102(a) as being anticipated by AiroPeek (for Windows Quick Tour).

As concerns claim 1, an IEEE 802.11(b) wireless LAN, a method for accessing and analyzing the contents of data packets or frames transmitted along a IEEE 802.11(b) wireless communication channel, comprising the steps of: establishing a direct wireless logical connection with the wireless communications network (Quick tour; page 1); receiving wirelessly, in real-time, data packets or frames transmitted in the wireless communications network (page 1) for all stations or devices associated therewith; performing over a first period of time a detailed protocol analysis on the contents of the header of the data packets or frames (page 2), including analyzing associated protocol layers (page 14) in detail; and displaying in real time the results (page 11) of the analysis to a user.

As concerns claim 2, storing in a memory storage device (inherent to have memory on the computer system being used for monitoring), the data packets or frames captured over a second period of time; and performing an offline detailed analysis (page 12; past statistics can be viewed while offline) on the contents of the IEEE 802.11(b) header of the data packets or frames, and associated protocol layers, stored in the memory storage device; and displaying the results (page 12) to the user.

As concerns claim 3, selectively turning said detailed protocol analysis on or off for a particular protocol layer (page 24; set filters for specific protocols), whereby for a protocol layer turned off, that layer and all protocol layers above or higher than that layer are not subjected to a detailed protocol analysis (only layers selected may be analyzed if chosen by the user).

As concerns claim 4, wherein the step of performing a detailed protocol analysis includes the step of generating alarms (page 13) for display relating to detected network and protocol errors.

As concerns claim 5, wherein the step of performing a detailed protocol analysis further includes selectively turning on or off said alarm (page 13-note under alarms section) generating step.

As concerns claim 6, wherein the step of performing a detailed protocol analysis further includes the steps of assigning a default severity level (page 13; user specified alarm condition, user specified severity) from a plurality of available severity levels for each available alarm; and selectively determining whether a particular alarm type is to be logged when generated (page 13; sends a notification of a user specified severity).

As concerns claim 7, further including the step of selectively marking an alarm as a diagnosis or a symptom (page 13; user specified alarm resolution condition) dependent upon the detected severity level.

As concerns claim 8, wherein said step of displaying includes the step of showing all layers (page 9; protocols and subprotocols) of protocols analyzed for each capture of frame or data packets.

As concerns claim 9, wherein said step of displaying further includes the step of showing the total number of frames and octets analyzed (page 11; summary statistics) for a selected protocol layer.

As concerns claim 10, wherein said step of displaying includes the step of showing for a selected protocol layer, lower layer objects linked to a current selected object (page 14; subprotocols).

Art Unit: 2151

As concerns claim 11, wherein said step of displaying includes the step of showing the hosts created for said IEEE 802.11(b) wireless communication layer, and the attributes of said hosts, respectively (page 14; address filter).

As concerns claim 12, further including showing detailed statistics for each selected host (page 14; address filter).

As concerns claim 13, further including showing attributes for each selected host, including MAC address (page 2; address), station function (page 14; port, tests for traffic from a port to ascertain functional or nonfunctional based on whether unreachable), frame types (page 2; protocol of the packet), channel (page 2), network types (page 4; name resolution), BSSID (page 2), and SSID (page 21).

As concerns claim 14, further including showing the higher layer DLC objects () linked to selected wireless layer hosts, respectively.

As concerns claim 15, further including showing alarms associated with a selected host (filters act as an alarm or trigger for a selected hose; page 13).

As concerns claim 16, wherein said step of detailed protocol analysis includes the steps of. permitting a user to enter the MAC addresses of known access points (page 20-21) operating in said IEEE 802.11(b) wireless communication channel; selectively activating a rogue access point detection routine; checking the addresses of newly detected access points against the addresses of said known access points; and marking for display as a rogue access point, any access point detected that is not included as a known access point (pages 4-6, automatic name resolution; page 8, detect various internet attacks; page 10, sources of specific protocol traffic).

As concerns claim 17, a wireless network troubleshooting tool for monitoring an IEEE 802.11(b) LAN wireless communication network to detect and diagnose failures in said wireless communication network, said tool comprising: a wireless network interface device operable in a promiscuous mode within a wireless communications network for capturing a plurality of frames or data packets (page 1) transmitted through the network for all stations or devices associated therewith; a user interface system including input and output devices (computer inherently has input and output devices; i.e. keyboard, monitor) for enabling a user to input and obtain information associated with said plurality of captured frames; a memory storage device (inherent to have memory on the computer system being used for monitoring) for storing said plurality of captured frames as received from said wireless network interface device; and a programmable processor unit (computer for running program, inherently has a processor) connected to said wireless network interface device, said user interface system, and said memory storage device, said processor being programmed to execute a routine comprising the steps of establishing a direct wireless logical connection with said wireless communications network via the network interface device (page 1); receiving wirelessly, in real-time, frames transmitted in the wireless communications network via direct wireless logical connection (page 1); receiving from said user, via said user interface configuration parameters (page 1); performing, through use of said configuration parameters a detailed protocol analysis on the contents of respective headers of the captured data packets or frames (page 1), including associated protocol layers (page 14), respectively; and displaying the results of the analysis to the user in real-time (page 11).

Art Unit: 2151

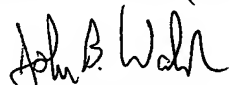
***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Walsh whose telephone number is 571-272-7063. The examiner can normally be reached on Monday-Friday from 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
John B. Walsh  
Primary Examiner  
Art Unit 2151